

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L31	26	l29 and (chitosan) and vanillin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/12/24 10:37
L30	45	l29 and (chitosan)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/12/24 10:36
L29	60	(US-20020028197-\$ or US-20020004089-\$ or US-20070141209-\$ or US-20090123597-\$ or US-20070166437-\$ or US-20070141211-\$ or US-20060110494-\$ or US-20060029712-\$ or US-20040009262-\$ or US-20090270346-\$ or US-20090074916-\$ or US-20030104020-\$ or US-20030108489-\$ or US-20050272922-\$ or US-20050281773-\$ or US-20060039934-\$ or US-20080195037-\$ or US-20090291912-\$ or US-20030203084-\$ or US-20020110620-\$ or US-20070082094-\$ or US-20050202149-\$ or US-20020187221-\$ or US-20030224090-\$). did. or (US-4661359-\$ or US-3998974-\$ or US- 5374441-\$ or US- 7297359-\$ or US- 7052729-\$ or US- 7325613-\$ or US- 7067116-\$ or US- 4373096-\$ or US- 6358889-\$ or US- 6291404-\$ or US- 4906488-\$ or US- 6306835-\$ or US- 6413920-\$ or US-	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/24 10:35

		6638918-\$ or US-4424346-\$ or US-7288532-\$ or US-5554445-\$ or US-5077052-\$ or US-5376388-\$ or US-5429832-\$ or US-5616339-\$ or US-5571527-\$ or US-5089307-\$ or US-5633025-\$ or US-5322935-\$).did. or (US-2040880-\$).did. or (EP-328317-\$ or GB-2272447-\$ or FR-2817870-\$).did. or (JP-05168401-\$ or JP-08193002-\$).did. or (WO-2004083256-\$ or CN-101214228-\$ or WO-0011038-\$ or JP-07039356-\$ or WO-2004056204-\$).did.				
L28	1	"5,322,935".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/24 10:17
L27	14	vanillin and chitosan and (ratio\$1 weight percent\$4)	FPRS; EPO; JPO; DERWENT	OR	ON	2009/12/24 10:10
L26	18	l25 and (ratio\$1 weight percent\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/24 10:01
L25	18	chitosan same (covalent \$4 cross\$1link\$4 crosslink\$4 schiff substitut\$4) and vanillin and l13	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/24 09:47
L24	18	l13 and L22	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/24 09:46
L23	0	l1 and L22	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/24 09:45
L22	125	chitosan same (covalent \$4 cross\$1link\$4 crosslink\$4 schiff substitut\$4) and vanillin and (lipid\$1 fat \$3 oil\$1 wax\$2)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/24 09:45
L20	12	l13 and ((cross\$1link\$4 crosslink\$4) with chitosan)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/24 09:12
L19	14	l13 and (attract\$4 cation\$4 covalent\$4) with chitosan	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/24 09:03

L17	6	l16 not l15	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/24 08:42
L16	31	l13 and (thick\$4 nm mm micron micrometer) and chitosan	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/24 08:42
L15	25	l13 and (thick\$4) and chitosan	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/24 08:36
L14	30	l13 and (thick\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/24 08:14
L13	59	(US-20020028197-\$ or US-20020004089-\$ or US-20070141209-\$ or US-20090123597-\$ or US-20070166437-\$ or US-20070141211-\$ or US-20060110494-\$ or US-20060029712-\$ or US-20040009262-\$ or US-20090270346-\$ or US-20090074916-\$ or US-20030104020-\$ or US-20030108489-\$ or US-20050272922-\$ or US-20050281773-\$ or US-20060039934-\$ or US-20080195037-\$ or US-20090291912-\$ or US-20030203084-\$ or US-20020110620-\$ or US-20070082094-\$ or US-20050202149-\$ or US-20020187221-\$ or US-20030224090-\$). did. or (US-4661359-\$ or US-3998974-\$ or US- 5374441-\$ or US- 7297359-\$ or US- 7052729-\$ or US- 7325613-\$ or US- 7067116-\$ or US- 4373096-\$ or US- 6358889-\$ or US- 6291404-\$ or US- 4906488-\$ or US- 6306835-\$ or US- 6413920-\$ or US- 6638918-\$ or US- 4424346-\$ or US- 7288532-\$ or US- 5554445-\$ or US- 5077052-\$ or US- 5376388-\$ or US- 5429832-\$ or US- 5616339-\$ or US-	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/24 08:14

		5571527-\$ or US-5089307-\$ or US-5633025-\$).did. or (US-2040880-\$).did. or (EP-328317-\$ or GB-2272447-\$ or FR-2817870-\$).did. or (JP-05168401-\$ or JP-08193002-\$).did. or (WO-2004083256-\$ or CN-101214228-\$ or WO-0011038-\$ or JP-07039356-\$ or WO-2004056204-\$).did.				
L12	384	l10 not l11	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/24 08:10
L11	87	l10 and vanillin	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/24 08:04
L10	471	l7 not L9	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/24 07:58
L9	88	L8 and "426".clas.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/24 07:58
L8	1216	chitosan same (fat\$2 wax\$2 oil\$1) same (film coat\$4 barrier\$1 layer)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/24 07:58
L7	559	chitosan and (fat\$2 wax \$2 oil\$1) and (film coat \$4 barrier\$1 layer) and "426".clas.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/24 07:49
L4	7	("2040880"   "5077052"   "5283064"   "5554445"   "5762992"   "6197942").PN. OR ("7169423").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/24 07:20
L3	1	(10/437718).APP.	USPAT; USOCR	OR	ON	2009/12/24 07:19
L2	2	"2040880".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/24 07:19
L1	1	"5554445".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/24 07:16
S67	88	S66 and "426".clas.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 16:23
S66	1215	chitosan same (fat\$2 wax\$2 oil\$1) same (film coat\$4 barrier\$1 layer)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 16:23
S65	14	S62 and (fat wax\$2) and chitosan	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 16:17

S64	23	S62 and (fat wax\$2)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 16:16
S63	32	S62 and (fat wax oil)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 16:15
S62	44	(US-20020028197-\$ or US-20020004089-\$ or US-20070141209-\$ or US-20090123597-\$ or US-20070166437-\$ or US-20070141211-\$ or US-20060110494-\$ or US-20060029712-\$ or US-20040009262-\$ or US-20090270346-\$ or US-20090074916-\$ or US-20030104020-\$ or US-20030108489-\$ or US-20050272922-\$ or US-20050281773-\$ or US-20060039934-\$ or US-20080195037-\$ or US-20090291912-\$). did. or (US-4661359-\$ or US-3998974-\$ or US- 5374441-\$ or US- 7297359-\$ or US- 7052729-\$ or US- 7325613-\$ or US- 7067116-\$ or US- 4373096-\$ or US- 6358889-\$ or US- 6291404-\$ or US- 4906488-\$ or US- 6306835-\$ or US- 6413920-\$ or US- 6638918-\$ or US- 4424346-\$ or US- 7288532-\$).did. or (EP- 328317-\$ or GB- 2272447-\$ or FR- 2817870-\$).did. or (JP- 05168401-\$ or JP- 08193002-\$).did. or (WO-2004083256-\$ or CN-101214228-\$ or WO-0011038-\$ or JP- 07039356-\$ or WO- 2004056204-\$).did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/12/23 16:15
S61	1	10/583421.app.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 15:06
S60	1	"7288532".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 14:05
S59	1	"4424346".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 13:54

S58	1	"4983304".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 11:34
S57	387	pectin and (feruloylat\$4 ferulyolat\$4 ferulic ferulat\$4) and (glyceride\$1 glycerin \$1) and (barrier film\$1 layer\$1 coat\$4 encapsulat\$4 emulsion emulsif\$5 microcapsul \$4 microencapsulat\$4 micro\$1encapsulat\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 11:31
S56	4	pectin and (feruloylat\$4 ferulyolat\$4 ferulic ferulat\$4) and (glyceride\$1 glycerin \$1) and (barrier film\$1 layer\$1 coat\$4 encapsulat\$4 emulsion emulsif\$5)	FPRS; EPO; JPO; DERWENT	OR	ON	2009/12/23 10:49
S54	8	chitosan and (covalent \$4 cross\$1link\$4 crosslink\$4 schiff substitut\$4) and vanillin and (lipid\$1 fat \$3 oil\$1 wax\$2)	FPRS; EPO; JPO; DERWENT	OR	ON	2009/12/23 10:43
S53	1	"4,424,346".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 09:32
S52	125	chitosan same (covalent \$4 cross\$1link\$4 crosslink\$4 schiff substitut\$4) and vanillin and (lipid\$1 fat \$3 oil\$1 wax\$2)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 09:30
S51	125	chitosan same (covalent \$4 cross\$1link\$4 crosslink\$4 schiff substitut\$4) and vanillin and (lipid\$1 fat \$3 oil\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 09:25
S50	126	chitosan same (covalent \$4 cross\$1link\$4 crosslink\$4 schiff substitut\$4) and vanillin	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 09:11
S49	0	(11/793953).APP.	USPAT; USOCR	OR	ON	2009/12/23 09:10
S48	8	chitosan same vanillin same (covalent\$4 cross \$1link\$4 crosslink\$4 schiff substitut\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 09:09

S47	1	"4373096".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 08:54
S46	1	"7067116".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 08:45
S45	0	(12/429141).APP.	USPAT; USOCR	OR	ON	2009/12/23 08:44
S44	1	"20090270346"	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 08:43
S43	1	"7325613".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 08:42
S42	1	S30 and (pectin and glyceride\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 08:26
S41	0	S30 and (pectin same glyceride\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 08:26
S40	0	S30 and (pectin with glyceride\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 08:26
S39	0	S30 and (attach\$4 with glyceride\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 08:26
S38	1	"2490312"	FPRS; EPO; JPO; DERWENT	OR	ON	2009/12/23 07:50
S37	1	"7052729".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 07:48
S36	8292	(cross\$1link\$4 crosslink \$4) same (hydrocolloid \$1 pectin\$1 chitosan)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 07:47
S35	9	S34 not S29	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 07:24
S34	59	S33 and "426".clas.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 07:24
S33	328	pectin and (ferulat\$2 ferulic) and (glyceride \$1 glycerin\$1) and (barrier film\$1 layer\$1 coat\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 07:23
S32	0	pectin and (ferulat\$2 ferulic) and (glyceride \$1 glycerin\$1) and (barrier film\$1 layer\$1 coat\$4) and "426.clas" not S29	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 07:23
S31	1	S30 and (covalent\$3 with vanillin)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 07:07
S30	1	10/583421.app.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 07:07
S29	50	S28 and "426".clas.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 07:05

S28	307	pectin and (ferulat\$2 ferulic) and (glyceride \$1 glycerin\$1) and (barrier film\$1 layer\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 07:05
S27	1	pectin same (ferulat\$2 ferulic) same (glyceride \$1 glycerin\$1) and (barrier film\$1 layer\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/23 07:04
S26	2	pectin same (ferulat\$2 ferulic) same (glyceride \$1 glycerin\$1)	FPRS; EPO; JPO; DERWENT	OR	ON	2009/12/23 07:03
S25	5	"2004083256"	FPRS; EPO; JPO; DERWENT	OR	ON	2009/12/22 16:45
S24	2	("5786470"   "4925677").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/22 16:06
S23	1	"5374441".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/22 15:48
S22	2	"2817870"	FPRS; EPO; JPO; DERWENT	OR	ON	2009/12/22 15:40
S21	1	"0011038"	FPRS; EPO; JPO; DERWENT	OR	ON	2009/12/22 15:40
S20	6	"2272447"	FPRS; EPO; JPO; DERWENT	OR	ON	2009/12/22 15:39
S19	1	S18 and chitosan and vanillin	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/22 15:32
S18	1	"7465469".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/22 15:32
S17	6	feruloylat\$4 and chitosan	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/22 15:24
S16	0	feruloylat\$4 and chitosan and vanillin	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/22 15:24
S15	3	ferulyolat\$4 and chitosan and vanillin	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/22 15:23
S14	34	vanillin and chitosan	FPRS; EPO; JPO; DERWENT	OR	ON	2009/12/22 15:21
S13	2	covalent\$2 same vanillin same chitosan	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/22 15:20
S12	33	covalent\$2 same vanillin	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/22 15:19
S11	0	S9 and chitosan	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/22 15:19
S10	0	S9 and vanillin	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/22 15:19
S9	4	("20020028197"   "4672034"   "5019403"   "6165521").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/22 15:19



S8	192	(edible near2 barrier \$1)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/18 14:59
S7	2	chitosan and vanillin and (edible near2 barrier\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/18 14:38
S6	718	chitosan and vanillin	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/18 14:30
S5	1	10/583421.app.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/18 14:17
S4	8	S3 same film	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/18 14:16
S3	27	chitosan same vanillin	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/18 14:15
S2	3	("20020004089"   "20020028197"   "4661359").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/18 14:09
S1	25	"328317"	FPRS; EPO; JPO; DERWENT	OR	ON	2009/12/18 14:08

**12/ 24/ 2009 11:34:53 AM**

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